

**REGULATION 8
ORGANIC COMPOUNDS
RULE 10
PROCESS VESSEL DEPRESSURIZATION**

INDEX

8-10-100 GENERAL

- 8-10-101 Description
- 8-10-110 Exemption, Storage Vessels
- 8-10-111 Exemption, Chemical Plants

8-10-200 DEFINITIONS

- 8-10-201 Chemical Plant
- 8-10-202 Petroleum Refinery
- 8-10-203 Process Unit
- 8-10-204 Process Vessel

8-10-300 STANDARDS

- 8-10-301 Process Vessel Depressurizing

8-10-400 ADMINISTRATIVE REQUIREMENTS

- 8-10-401 Turnaround Records
- 8-10-402 Increments of Progress

8-10-500 MONITORING OF RECORDS (Not included)

8-10-600 MANUAL OF PROCEDURES (Not included)

**REGULATION 8
ORGANIC COMPOUND
RULE 10
PROCESS VESSEL DEPRESSURIZATION**

8-10-100 GENERAL

8-10-101 Description: The purpose of this Rule is to limit emissions of precursor organic compounds from process vessel depressurization at petroleum refineries and chemical plants. (Amended 3/17/82, 7/20/83)

8-10-110 Exemption, Storage Vessels: The requirements of Section 8-10-301 shall not apply to stationary containers used solely for the storage of an organic liquid

8-10-111 Exemption, Chemical Plants: The provisions of Section 8-10-301 shall not apply to chemical plants until January 1, 1985. (Adopted 7/20/83)

8-10-200 DEFINITIONS

8-10-201 Chemical Plant: Any facility engaged in producing organic or inorganic chemicals and/or manufacturing products by chemical processes. Any facility or operation that has 28 as the first two digits in their Standard Industrial Classification Code as determined from the Standard Industrial Classification Manual published in 1972 by the Executive Office of the President, Office of Management and Budget. Chemical plants may include, but are not limited to the manufacture of: industrial inorganic and organic chemicals; plastic and synthetic resins, synthetic rubber, synthetic and other man made fibers; drugs; soap, detergents and cleaning preparations, perfumes, cosmetics and other toilet preparations; paints, varnishes, lacquers, enamels and allied products; agricultural chemicals; safflower and sunflower oil extracts; re-refining. (Adopted 7/20/83)

8-10-202 Petroleum Refinery: Any facility engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants or other products through distillation of petroleum or through redistillation, cracking, rearrangement or reforming of unfinished petroleum derivatives. (Adopted 7/20/83)

8-10-203 Process Unit: A manufacturing process which is independent of other processes and is continuous when supplied with a constant feed of raw materials and sufficient storage facilities for the final product. (Adopted 7/20/83)

8-10-204 Process Vessel: Any vessel in which organic compounds are fractionated on more than one tray or on packing, or chemically reacted, or washed or purified. (Renumbered 7/20/83)

8-10-300 STANDARDS

8-10-301 Process Vessel Depressurizing: The control of precursor organic compound emissions from depressurizing any process vessel at a petroleum refinery or a chemical plant during a process unit turnaround shall be accomplished so that the organic compounds, after passing through a knockout pot to remove the condensable fraction, must either be:

- 301.1 Recovered (add to the fuel gas system) and combusted,
- 301.2 Controlled and piped to an appropriate firebox or incinerator for combustion,
- 301.3 Flared,
- 301.4 Contained and treated so as to prevent their emissions to the atmosphere. Such procedures shall continue until the pressure within the process vessel is as close to atmospheric pressure as practicably possible, in no case shall a process vessel be vented to the atmosphere until the partial pressure of organic compounds in that vessel is less than 1000 mm Hg (4.6 psig).

(Amended 3/17/83, 3/20/83)

8-10-400 ADMINISTRATIVE REQUIREMENTS

8-10-401 Turnaround Records: Refinery personnel shall keep records of each process unit turnaround, listing as a minimum:

- 401.1 The date of unit shutdown and/or depressurizing,
- 401.2 The approximate process vessel hydrocarbon concentration when the organic emissions were first discharged into the atmosphere, and
- 401.3 The approximate quantity of total precursor organic compounds emitted into the atmosphere. These records shall be kept for at least two (2) years and be made available to the APCO during any compliance inspection.

(Amended 3/17/82, 7/10/83)

8-10-402 Increments of Progress: A person who must modify existing sources or install new control equipment at chemical plants to comply with the requirements of this Rule shall comply with the following compliance schedule:

- 402.1 January 1, 1984: Submit to the APCO final control plan which describes, as a minimum, the steps, including a construction schedule, that will be taken to achieve compliance with such requirements.
- 402.2 July 1, 1984: Submit a completed application for any Authority to Construct necessary to achieve compliance with such requirements.
- 402.3 January 1, 1985: Be in compliance with all the requirements of this Rule.

(Amended July 20, 1983)